

# TECHNICAL DATA SHEET

## CE OSX 1000 Fire Fighter Suit Certificate 2777-12731-01-E00-00

**Product description** - Fire fighter protective suit.

**Fabric** - Exterior fabric: MPA (75%Meta-aramid/23%Para-aramid/2%Anti-static), 205g/m2  
 Moisture layer: BMP (12%Waterproof breathable membrane on meta-aramid/88%para-aramid felted thermal barrier, 170g/ m2. Liner: FRML (50% FR modacrylic / 50% Lenzing fabric), 120 g/m2.

**Colours** - Black, Yellow, Khaki

**Seam type** - Safety stitch seam.



### CE Certification

BS EN 469: 2005  
 BS EN 1149-5: 2018

Protective clothing for Firefighters.  
 Protective clothing. Electrostatic properties. Performance requirements.

### Mechanical Properties

EN 13935-2  
 EN 20811  
 EN 31092  
 ISO 13937-2  
 ISO 13934-1  
 EN 24920  
 EN 1149-1  
 EN 1149-3 (Knee Pads)

### Test

Seam Strength  
 Water Penetration  
 Water Vapour Resistance  
 Tear strength of outer material  
 Tensile strength of outer material  
 Surface wetting  
 Surface Resistance  
 Charge Decay

### Result

575.5 N  
 >20kPa  
 < 30 m2 Pa/W  
 65.2N / 51.0N  
 1307N / 871N  
 Level 4  
 <5.1x10<sup>3</sup>  
 t50 < 4 s and S > 0,2

### Class

4  
 Level 2  
 Level 2  
 2  
 4  
 Pass

### Heat and Flame Properties

EN 367  
 EN 367  
 EN ISO 6942  
 ISO 17493

### Test

Heat Transfer - Flame (RHTI24)  
 Heat Transfer - Flame (RHTI24-12)  
 Heat Transfer - Radiation (RHTI24-12)  
 Heat Resistance @ 180°C

### Result

>17.2s  
 >4s  
 >18s  
 Pass

### Class

X2  
 X2  
 X2

### Protection against Liquid Chemicals EN ISO 6530

Sodium Hydroxide 40% (1310-73-2)  
 Hydrochloric Acid 36% (7647-01-0)  
 Sulphuric Acid 30% (7664-93-9)  
 o-xylene 100% (95-47-6)

### Repellency

Class 3 - 98.9%  
 Class 3 - 98.1%  
 Class 3 - 98.2%  
 Class 3 - 95.9%

### Penetration

Class 3 - 0%  
 Class 3 - 0%  
 Class 3 - 0%  
 Class 3 - 0%

### Garment Dimensions (cm)

Item	Style Code	SML	MED	LRG	XL	XXL	XXXL
A. Coat Length	(CEOSX1000C)	88	88	88	88	88	88
B. Chest	(CEOSX1000C)	64	66	68	70	74	76
C. Sleeve length	(CEOSX1000C)	84	86	88	90	92	94
D. Long coat length	(CEOSX1000LC)	103	103	103	103	103	103
E. Chest	(CEOSX1000LC)	53	58	63	68	73	78
F. Sleeve length	(CEOSX1000LC)	62	63	64	65	66	67
G. Pant length	(CEOSX1000P)	103	103	104	104	105	105
H. Pant Waist	(CEOSX1000P)	46	50	52	56	58	60

### Packaging and Other Information

- Individually packed in vacuum sealed bags
- 1 suit per carton
- Store in normal conditions – cool and away from strong light
- Shelf life: 10 years



Download  
 Declaration of Conformity



# CE OSX® Fire Fighters Clothing



- Key features include:**
- Drag rescue device
  - Kevlar® cuff with thumb loop
  - Liner pocket
  - Reinforced knees
  - 8-point pant suspenders included

CE Certified fire fighters turnout gear in lightweight materials and including Lakeland Drag Rescue Device as standard.

- Based on the Lakeland's US 'OSX® Attack' design, the CE OSX® EN certified fire fighters turnout gear uses lightweight materials to ensure comfort and freedom of movement in the most demanding call outs.
- As standard CE OSX® includes features such as the Lakeland DRD - Drag Rescue Device, radio clip and re-enforced knee-pads.
- Lakeland also manufactures a whole range of fire fighters clothing meeting the requirements of US NFPA standards, and can make a variety of styles and additional features. Contact Lakeland for more details.
- Advanced FR materials with two optional outer fabrics, lightweight design and features focused on those that make a real difference - so you don't have to carry around features you don't need.

**CE OSX® Jacket features:-**

- Throat protection tab
- Micro-clip for radio
- Inset sleeve design for superior freedom of movement
- Knitted Kevlar® cuff with thumb-hole for superior comfort and protection
- Adjustable drawstring waist for improved comfort
- Two hand-warmer pockets with drain holes
- Convenient liner pocket
- Lakeland innovative Drag Rescue Device - when the worst happens drag a downed colleague to safety
- Also available: long coat

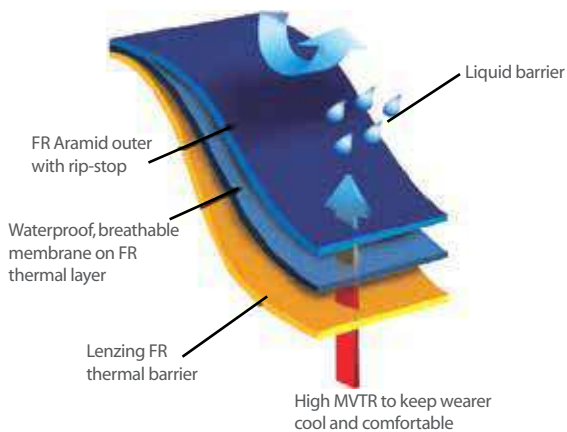


**CE OSX® Pants features:-**

- Adjustable waistband for increased comfort
- Leather-bound edges for toughness and durability
- 8-point suspenders included
- Reinforced knee-pads for tough durability
- Slanted slash pockets



## Fabric Construction



The 3 layer structure comprises of:

Outer layer	Middle layer	Inner layer
2 options: Flexible FR Aramid with rip stop / Nomex®	Breathable moisture barrier membrane	Lenzing FR thermal barrier to enhance heat protection

## CE Certification and Physical Properties Data

EN Standard	Description	FR Aramid Outer		Nomex® Outer	
		Result	EN Class	Result	EN Class
EN 469:2005	Protective clothing for fire-fighters	Pass			
EN 1149-5:2008	Anti-static properties	Pass			
EN 13935-2	Seam strength	575.5N	4	An optional outer fabric will be available soon. Updated details available on request.	
EN 367	Heat transfer - flame (RHTI <sub>24</sub> )	17.2 sec	X2		
EN 367	Heat transfer - flame (RHTI <sub>24-12</sub> )	>4s	X2		
EN ISO 6942	Heat transfer - radiation (RHTI <sub>24</sub> )	>18s	X2		
EN ISO 6942	Heat transfer - radiation (RHTI <sub>24-12</sub> )	>4s	X2		
EN 20811	Water penetration	>20kPa	Y2		
EN 31092	Water vapour resistance	<30m <sup>2</sup> Pa/W	Z2		